EXHIBIT B

DISPUTED CLAIM TERMS, PHRASES OR CLAUSES FOR CONSTRUCTION BY THE COURT

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
AOS '567 Patent		
several Found in 5,767,567, claim 7	PROPOSED CONSTRUCTION: two or more	PROPOSED CONSTRUCTION: Three or more.
	INTRINSIC EVIDENCE: Abstract, 1:37 – 65, 2:29 – 3:10, 3:54 – 6:32, 7:24 – 32, 8:34 – 45.	INTRINSIC EVIDENCE: 1:16-2:22; 2:25-49; 2:57- 3:10; 3:62-5:57; 6:15-20; 6:49-58; 6:66-7:16; 8:34-45; Figs. 1A, 1B, 2B, 2C, 2D, 5
		DICTIONARY/TREATISE DEFINITIONS: Webster's Encyclopedic Unabridged Dictionary of the English Language, 1996, p. 1754 (several).
		Webster's Encyclopedic Unabridged Dictionary of the English Language, 1996, p. 1602-03 (ratio).
	EXTRINSIC EVIDENCE: Oxford English Dictionary (online), definition of several. Merriam Webster's Collegiate Dictionary, 10th edition, 1997, page 1073. Microsoft Encarta College Dictionary, 2001, page 1324. Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.

Term, Phrase, or Clause configuring said gate runners for dividing said source contact area into several sub-contact areas with a set of area proportional ratios Found in 5,767,567, claim 7	AOS's Proposed Construction and Evidence in Support PROPOSED CONSTRUCTION: the placement of gate runners divides the source contact area into sub-contact areas, and a set of area proportional ratios are defined by the ratios of the approximate areas of the sub-contact areas	Fairchild's Proposed Construction and Evidence in Support PROPOSED CONSTRUCTION: Arranging the gate runners, after determining the total number of lead wires, to define several sub- contact areas that are not all equal in size and such that the ratio of lead wires to area is the same for each of the sub-contact areas
	INTRINSIC EVIDENCE: 1:37-2:16, 2:29 – 3:10, 3:60 – 4:63, 5:1 – 14, 5:45-57, 6:49-65, 7:24 – 8:33, 8:34-45, 8:46-58. Fig. 1A, Fig. 1B, Fig. 2B, Fig. 2C, Fig. 2D, Fig. 5, and related text. Prosecution History, Office Action mailed Sept. 17, 1997, page 2.	INTRINSIC EVIDENCE: 1:16-2:22; 2:25-49; 2:57- 3:10; 3:67-5:57; 6:49-58; 6:66-7:16; 8:34-45; Figs. 1A, 1B, 2B, 2C, 2D, 5; Patent Application Serial No. 08/707929, pages 13-16; Office Action, dated September 12, 1997, page 2; Amendment and Remarks, dated December 9, 1997, page 2; Notice of Allowability
	EXTRINSIC EVIDENCE: Expert testimony.	DICTIONARY/TREATISE DEFINITIONS: Webster's Encyclopedic Unabridged Dictionary of the English Language, 1996, p. 1754 (several). EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
AOS '630 Patent		
applying a polysilicon mask for etching said polysilicon layer to define a plurality of polysilicon gates Found in 5,930,630, claim 1	PROPOSED CONSTRUCTION: the meaning of this phrase is clear and unambiguous to a person of skill in the art, and thus it need not be construed by the court	PROPOSED CONSTRUCTION: Applying a mask having a plurality of openings to allow the removal of areas of a polysilicon layer to form a plurality of polysilicon gates corresponding to the plurality of areas of the mask which are not open.
	INTRINSIC EVIDENCE: 3:58-65, 4:1 – 9, 4:24 – 34, 5:44 – 52, 5:64 – 6:2, 6:11 – 12, 7:11 – 23, 8:55-9:17, 9:48-10:19.	INTRINSIC EVIDENCE: <u>'630 patent:</u> abstract; Figs. 5A, 5B; 4:48-5:13; 5:42-43; 6:65-7:23; 8:1-8:22.
	Fig. 6 and related text.	DICTIONARY/TREATISE DEFINITIONS: Merriam Webster's Collegiate Dictionary, 1999, p. 303 (define). The American Heritage Dictionary, 1985, p. 375 (define).
	EXTRINSIC EVIDENCE: Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.
AOS '776 Patent		
compensating a portion of said body region by implanting material of said second conductivity type in said body region Found in 5,907,776, claims 1, 13, 25	PROPOSED CONSTRUCTION: implanting into the body region material having conductivity type opposite the conductivity type of the body region	PROPOSED CONSTRUCTION: Implanting impurities of the second conductivity type into the body region such that the peak concentration of that implant is located in the body region, and such that the conductivity type at the location of the peak concentration of that implant does not change.

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	AOS's Proposed Construction	Fairchild's Proposed Construction and Evidence in
Term, Phrase, or Clause	and Evidence in Support	Support
	INTRINSIC EVIDENCE: Abstract, 2:8 – 20, 2:42 – 3:23, 3:50 – 58, 5:19 – 36, 5:48 – 61, 7:40 – 8:4, 8:44 – 45, 9:5 – 20. Figures 1-6, 7A-7N, and related text.	INTRINSIC EVIDENCE: Figs. 1, 2, 3, 4, 5, 6, 7I, 7J, 7K; 2:8-3:31; 3:43-4:8; 5:8-6:13; 7:31-8:13; 9:5-20; 9:51-54; 9:65- 10:15; 10:23-26; 10:45-50; 10:62-11:14
	The entire specification (showing absence the term "peak concentration").	
	Prosecution History, Office Action mailed May 15, 1998, pages 4-6.	
	Patent No. 5,248,627 (Williams), 6:49-52 and Fig. 7.	
	Patent No. 5,527,720 (Goodyear), 6:13-46 and Figures 1, 6, 7, and 8.	
	Prosecution History, Amendment received at the PTO October 5, 1998, pages 12 – 18.	
	EXTRINSIC EVIDENCE: The IEEE Standard Dictionary of Electrical and Electronics Terms, Sixth Ed. 1997, pages 186, 313.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of
	Donald A. Neaman, An Introduction to Semiconductor Devices, 2006, page 102.	the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms
	Modern Dictionary of Electronics, 7th ed. 1999, pages 138, 214.	as set forth herein.
	Wiley Electrical and Electronics Engineering Dictionary, 2004, page 130.	
	Expert testimony.	

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
Fairchild MO Patents		
wherein the heavy body forms an abrupt junction with the well	PROPOSED CONSTRUCTION ¹ : the doping concentration gradient	PROPOSED CONSTRUCTION: The transition between the heavy
wherein the doped heavy body forms an abrupt junction with the well	at the junction between the heavy body and the well is sufficiently high that further increasing the doping concentration gradient does not further reduce the	body and the well occurs over a short distance relative to the depth of the well.
Found in 6,429,481, claims 1, 6, 15; 6,710,406, claims 1, 13; 6,828,195, claims 1, 21	breakdown voltage at the p-n junction between the well and the substrate	
	A linearly graded junction is not an abrupt junction.	
	INTRINSIC EVIDENCE: '481 patent: 1:15 – 21, 2:34 – 37, 5:26 – 28.	INTRINSIC EVIDENCE: '481 patent: 2:65-3:1; 4:5-6; 5:27-38; 7:18-42; Fig. 5; 4:38-41. '406 patent: 3:3-6; 4:10-11; 4:42-
	Prosecution History of '481 patent, Office Action dated December 5, 2000, pages 3-4.	44; 5:30-41; 7:22-46; Fig. 5. '195 patent: 2:39-42; 3:63-64; 4:29-31; 5:17-28; 7:11-36; Fig. 5. '481 patent file history:
	Prosecution History of '481 patent, Amendment received at the PTO June 7, 2001, pp. 5-16.	Application dated November 14, 1997 (including drawings); Preliminary Amendment dated September 5, 2000 (including
	Prosecution History of '481 patent, Amendment received at the PTO Dec. 31, 2001, pp 1-7.	remarks); Amendment dated June 7, 2001 (including remarks); Amendment Under 37 CFR 1.116 Expedited Procedure
	Prosecution History of '195 patent, Amendment received at the PTO Oct. 23, 2003, page 9.	Examining Group 2815 dated December 31, 2001 (including remarks).
	Appeal Brief for Application No. 10/630,249 dated November 3, 2005 at page 8.	
	EXTRINSIC EVIDENCE: The IEEE Standard Dictionary of Electrical and Electronics Terms,	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A.

¹ AOS asserted in its Supplemental Preliminary Invalidity Contentions that this claim element is indefinite. Fairchild does not agree.

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
	6th ed. 1997, page 1. McGraw-Hill Electronics Dictionary, 5th Edition 1994, page 1. Sze, Physics of Semiconductor Devices, 1981, pages 74, 63-132. Ghandhi, Sorab K., Semiconductor Power Devices, 1977, page 298. Warner, R. M. Jr. & Grung, B.L., Transistors: Fundamentals for the Integrated-Circuit Engineer, 1990, pages 210, 446-455. Warner, R.M. Jr. & Grung, B.L., Semiconductor-Device Electronics, 1991, pages 305- 308.	Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.
	Expert testimony.	
resulting in avalanche current that is substantially uniformly distributed Found in 7,148,111, claim 29	PROPOSED CONSTRUCTION: the avalanche current at breakdown initiation is roughly equally distributed across the entire device	PROPOSED CONSTRUCTION: Resulting in avalanche current that is approximately evenly distributed across the active region of the device.
	INTRINSIC EVIDENCE: 2:36 – 46, 5:4 – 50, 10:45 – 11:11. '481 specification, 8:43-67, 9:5-8.	INTRINSIC EVIDENCE: '481 patent: 4:42-5:38; Figs. 1, 1A, 1B, 2; 4:15-29; 6:8-11. '111 patent: 4:11-24; 4:37-5:33; 6:3-6; 9:5-7; 10:34-36; 10:44- 11:11; Figs. 1, 1A, 1B, 2.
	'406 specification, 8:46-67, 9:5-8. Prosecution History of '481 patent, Application as Filed.	
	Prosecution History of '481 patent, Amendment received at the PTO Nov. 8, 1999.	

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Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
	Prosecution History of '481 patent, Amendment received at the PTO Sept. 5, 2000. Prosecution History of '481 patent, Amendment received at the PTO Dec. 5, 2000. Prosecution History of '481 patent, Amendment received at the PTO June 7, 2001. Prosecution History of '481 patent, Amendment received at the PTO Dec. 31, 2001. Appeal Brief for Patent Application No. 10/630,249, dated Nov. 3, 2005.	
	EXTRINSIC EVIDENCE: Duncan A. Grant & John Gowar, POWER MOSFETS Theory and Applications, 1989, pages 85 – 91. B. Jayant Baliga, Power Semiconductor Devices, 1996, page 40. Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.
depth of the junction, relative to the depth of the well, is adjusted so that a transistor breakdown initiation point is spaced away from the trench in the semiconductor when voltage is applied to the transistor a location of the abrupt junction relative to the depth of the well is adjusted so that a	PROPOSED CONSTRUCTION ² : selecting by repeated experiments or by computer simulation the relative depths of the well and the junction for the purpose of moving initiation of breakdown in the device toward the center of the body region between adjacent trenches	PROPOSED CONSTRUCTION: Fairchild does not believe construction of this term is required. The ordinary meaning should apply.

² AOS asserted in its Supplemental Preliminary Invalidity Contentions that this claim element is indefinite. Fairchild does not agree.

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
transistor breakdown initiation point is spaced away from the trench in the semiconductor, when voltage is applied to the transistor depth of the heavy body relative to a depth of the well is adjusted so that breakdown of the transistor originates in the semiconductor in a region spaced away from the trenches when voltage is applied to the transistor depth of the heavy body junction relative to a maximum depth of the well, is adjusted so that a peak electric field in the substrate is spaced away from the trench when voltage is applied to the transistor Found in 6,429,481, claims 1, 6, 15; 6,710,406, claims 1, 13	INTRINSIC EVIDENCE: '481 patent, 2:29 – 32, 2:59 – 62, 5:8-17. Prosecution History of '481 patent, Application as Filed, pages 15-17. Prosecution History of '481 patent, Amendment received at the PTO Nov. 8, 1999, pp. 8-10. Prosecution History of '481 patent, Amendment received at the PTO Sept. 5, 2000, page 9. Prosecution History of '481 patent, Amendment received at the PTO June 7, 2001, pp. 9, 15- 20. Prosecution History of '481 patent, Amendment received at the PTO June 7, 2001, pp. 9, 15- 20. Prosecution History of '481 patent, Amendment received at the PTO Dec. 31, 2001, pp. 2 – 6. Appeal Brief for Patent Application No. 10/630,249, dated Nov. 3, 2005, pages 9, 14, 15, and 18.	INTRINSIC EVIDENCE: '481 patent: 2:29-32; 2:59-62; 5:8-12; 9:38-44; 9:47-50; Figs. 1, 1A, 1B, 2; 4:16-29. '406 patent: 2:34-37; 2:64-67; 5:11-15; 8:63-67; 9:5-8; 9:56-62; 9:65-10:2; Figs. 1, 1A, 1B, 2; 4:20-33. '481 patent file history: Amendment dated June 7, 2001 (including remarks); Amendment Under 37 CFR 1.116 Expedited Procedure Examining Group 2815 dated December 31, 2001 (including remarks).
	EXTRINSIC EVIDENCE: Expert testimony.	DICTIONARY/TREATISE DEFINITIONS: The Random House Dictionary of the English Language, 1967, p. 1167 (purpose). EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.

Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
Fairchild '947 Patent		
acting as a field plate to extend the device breakdown voltage in the termination region forming a field plate around the termination region Found in 6,818,947, claims 1, 5, 6	PROPOSED CONSTRUCTION: a conductive ring formed in a trench in the termination region, resulting in a higher breakdown voltage in the termination region by modifying the depletion layer in the underlying substrate ³	PROPOSED CONSTRUCTION: Acting as a conductive structure at or near the top surface of the substrate to increase breakdown voltage in the termination region. Forming a conductive structure at or near the top surface of the substrate that increases
	INTRINSIC EVIDENCE: 1:31 – 36, 1:43 – 67, 4:33 – 46, 6:27 – 35, 7:9 – 16, 8:1 – 6. Prosecution History, Amendment received at the PTO July 21, 2003. Prosecution History, Amendment received at the PTO Dec. 29, 2003. B. Jayant Baliga, Modern Power Devices, 1992, pages 116-119 (incorporated by reference in the specification). Sorab K. Ghandhi, Semiconductor Power Devices, 1977, pp. 63 – 70 (incorporated)	breakdown voltage in the termination region. INTRINSIC EVIDENCE: 1:25-67; 2:2-48; 3:51-5:63; 6:12-36; 6:66-7:19; 7:20-8:15; Figs. 1, 2, 3A, 3B, 3C, 4A, 4B
	by reference in the specification). EXTRINSIC EVIDENCE: U.S. Patent No. 5,233,215 (Baliga), 4:5-21, 5:19-24, 45-52, 5:66-6:9, 8:6-58, Fig. 4, Fig. 5, Fig. 6, and related text. Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.

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³ In response to arguments by Fairchild in its Opening Claim Construction Brief, AOS has replaced the word "silicon" with "substrate" in its proposed definition.

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Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
a plurality of elongated inner runners extending in the same direction Found in 6,818,947, claim 6	PROPOSED CONSTRUCTION: multiple substantially parallel gate trenches filled with a conductive material extending in one direction across the active transistor region	PROPOSED CONSTRUCTION: Conductive structures formed in trenches extending in the same direction across the active area of the device.
	INTRINSIC EVIDENCE: Figures 2, 4A, 4B, and related text.	INTRINSIC EVIDENCE: 3:9-50; 4:2-7; 4:16-5:54; 7:20- 8:15; Figs. 1, 2, 3A, 3B, 3C, 4B
	EXTRINSIC EVIDENCE: Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.
isolation trench Found in 6,818,947, claim 1	PROPOSED CONSTRUCTION: a valley filled with dielectric material surrounded by sidewalls in the periphery of a semiconductor substrate that can prevent leakage into the substrate	PROPOSED CONSTRUCTION: An insulating structure, having a wall near the die edge, which electrically isolates the body region from the die edge.
	INTRINSIC EVIDENCE: 1:43-67, 3:51-62, 4:10-14, 4:33- 46, 6:37 – 39.	INTRINSIC EVIDENCE: 4:11-15; 4:33-36; 6:12-36; Fig. 1
	Figures 1, 2, 3A, 3B, 3C, 4A, 4B, and related text.	
	Prosecution History, Amendment received at the PTO Dec. 29, 2003, pp. 13 – 14.	
		DICTIONARY/TREATISE DEFINITIONS: Edward Keonjian, Microelectronics, Theory, Design and Fabrication, 1963, pages 262-265.

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Term, Phrase, or Clause	AOS's Proposed Construction and Evidence in Support	Fairchild's Proposed Construction and Evidence in Support
		Dr. Max Fogiel, Modern Electronics, Basic Principles, Circuit Design, Fabrication Technology, 1972, pages 32-35.
	EXTRINSIC EVIDENCE: McGraw-Hill Dictionary of Scientific and Technical Terms, 5th ed. 1994, page 2065 (defining trench). Merriam Webster's Collegiate Dictionary, 10th ed. 1997, page 1259 (defining trench). McGraw-Hill Dictionary of Scientific and Technical Terms 6th ed. 2003, page 2186 (defining trench). S.M. Sze, Semiconductor Devices: Physics and Technology, 2002, pages 500- 501, 507-508, 513-515, 526. Ben G. Streetman & Sanjay Banerjee, Solid State Electronic Devices, pages 427-429. S.M. Sze, High-Speed Semiconductor Devices, 1990, pages 349-351. Expert testimony.	EXTRINSIC EVIDENCE: Fairchild may submit an expert declaration from Dr. Richard A. Blanchard regarding the background of the technology of the patents-in-suit, the level of ordinary skill in the art, and why one of ordinary skill in the art would construe the claim terms as set forth herein.